

Fremont

Building Official

Code Enforcement

Smoke/Heat Detectors – Residential

Smoke alarms shall be installed in the following locations;

- a) in each sleeping room
- b) outside of each separate sleeping area in the immediate vicinity of the bedrooms.
- c) on each additional story of the dwelling, including basement and cellars but not including crawls spaces and uninhabitable attics.
- d) attic spaces –(heat detectors)
- e) integral and attached garages – (heat detector)

In all new construction the alarms are to receive their power from the building's primary wiring – and are to be provided with a battery backup. When more than one smoke alarm is required to be installed the alarm shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms.

Each sleeping room shall be provided with an approved, listed single –station smoke alarm. Smoke detectors are required on all levels, including basements but excluding the crawl spaces and unfinished attics.

Additional smoke alarms shall be installed for all living areas – a living area being defined as any normally occupiable space in residential occupancy, other than sleeping rooms or rooms that are intended for combination sleeping/living, bathrooms, toilets compartments, kitchens, closets, halls, storage or utility spaces, and similar areas.

Additional areas lending themselves to protection with heat detectors are the kitchen, dining room, attic, (finished or unfinished), furnace room, utility room, basement, and integral or attached garage. For bedrooms, the installation of a smoke detector is recommended over the installation of a heat detector for protection of the occupants from fires in their bedrooms.

On-site inspection may require the placement of additional smoke and/or heat detectors based on the determination of compliance to the basic performance criteria established in the codes. Such areas might be rooms with high ceiling or cathedral style ceilings separated such that a smoke condition could exist for a period of time so as to pose a delay in the initiating of a smoke detector located in an adjoining space or areas of obstructions effecting the viewing path may a placement of a second detector – (such as large beam/girders in garage areas requiring placement of detectors on both sides of the beams/girder)

8-1.2 Performance Criteria. NFPA 72 8-1.2.1*

Sufficient initiating devices shall be installed within the dwelling unit so that their operation provides adequate egress time before the occurrence of untenable conditions at any point along the normal path of egress for all design fire scenarios specified in applicable codes and any supplementary fire scenarios specified by the authority having jurisdiction.